

1.



$$r = 7\text{m}$$

$$d = 14\text{m}$$

$$C = ?$$

$$C = \pi \times 2 \times r$$

$$= 3.14 \times 2 \times 7$$

$$= 43.96\text{m}$$

$$\approx 44.0\text{m}$$

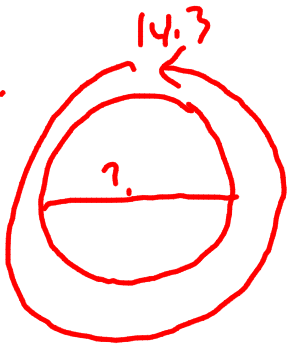
OR

$$C = \pi d$$

$$= 3.14 \times 14$$

$$=$$

2.



$$C = 14.3\text{mm}$$

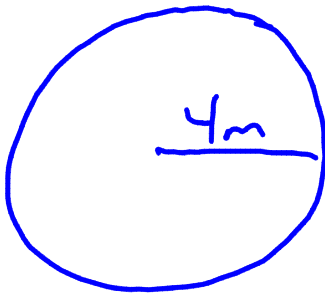
$$d = ?$$

$$d = \frac{C}{\pi}$$

$$= \frac{14.3}{3.14}$$

$$= 4.55 \approx 4.6\text{mm}$$

3.



$$r = 4m$$

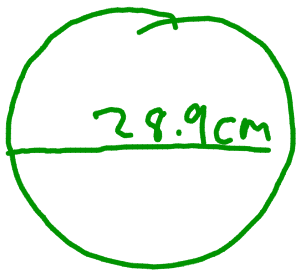
$$d = 8m$$

$$A = \pi r^2$$

$$= 3.14 \times 4 \times 4$$

$$= 50.24 \text{ m}^2$$

$$\approx 50 \text{ m}^2$$



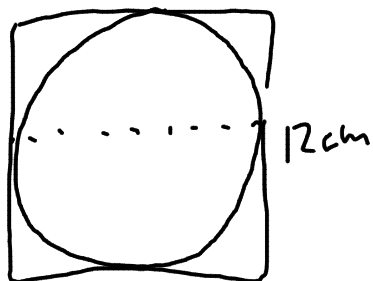
$$d = 28.9 \text{ cm}$$

$$r = 14.45 \text{ cm}$$

$$A = \pi r^2$$

$$= 3.14 \times 14.45 \times 14.45$$

$$= 655.6 \text{ cm}^2$$



$$A_0 = l \times w$$

$$= 12 \times 12$$

$$= 144 \text{ cm}^2$$

$$12 \text{ cm}$$

$$d = 12 \text{ cm}$$

$$r = 6 \text{ cm}$$

✓

$$A_0 = \pi r^2$$

$$= 3.14 \times 6 \times 6$$

$$= 113.04 \text{ cm}^2$$

$$A_0 - A_0 = 144 - 113.04$$

$$= 30.96 \text{ cm}^2$$

7. + 8 → easy!

9. The radius is $\frac{1}{2}$ the length of the diameter

10 →



$$r = 28 \text{ cm}$$

$$d = 56 \text{ cm}$$



$$C = \pi d$$

$$= 3.14 \times 56$$

$$= \underline{175.84 \text{ cm}}$$

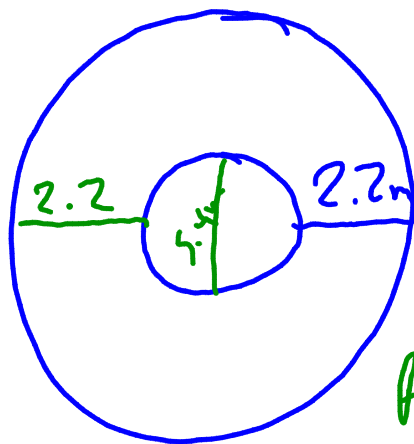
$$\frac{3}{4} C = \frac{3}{4} (175.84)$$

$$\frac{3}{4} C = 131.88 \text{ cm}$$

$$\text{Add the 2 radii} = 131.88 + 28 + 28$$

$$= 187.88 \text{ cm}$$

$$= 187.9 \text{ cm}$$



Hot tub
 $d = 5.4\text{m}$
 $r = 2.7\text{m}$

Deck
 $\phi = 7.2 + 7.2 + 5.4$
 $= 9.8\text{m}$
 $r = 4.9\text{m}$

$$A_{HT} = \pi r^2$$

$$= 3.14 \times 2.7 \times 2.7$$

$$= 22.89\text{m}^2$$

$$A_{\phi} = \pi r^2$$

$$= 3.14 \times 4.9 \times 4.9$$

$$= 75.39\text{m}^2$$

$$A_{\text{Deck}} = 75.39 - 22.89 = 52.5\text{m}^2$$